

1 **ABSTRACT**

2 An in-line skate wheel incorporating transverse-mounted and self-
3 powered illuminating device is disclosed. The wheel includes two mutually
4 coupled anchors, a rotor held between the two coupled anchors, multiple
5 illuminating devices installed in transverse orientation on the rotor, a stator
6 within the rotor but kept apart from the rotor, an axle extending through the two
7 coupled anchors and the stator, and a protective covering placed around the rim
8 of the first and second anchors. The transverse-mounted illuminating devices
9 allow the skate wheel to be fitted on in-line skates and skate boards that can only
10 use small wheels. Further, the present design can prevent scratching of the
11 illuminating devices against the ground to avoid abrasion on the surface of the
12 illuminating devices that would otherwise attenuate the light given out by the
13 illuminating devices.